

School of Natural Sciences

Department of Chemistry

Ph.D. Admissions Announcement: 2019-2020, Monsoon (2019)

The Department of Chemistry in the School of Natural Sciences at Shiv Nadar University invites applications for admission in the Ph.D. program starting **August 2019**.

Opportunities for research in chemistry at SNU are available in the following broad areas:

- Catalysis
- Chemical Biology
- Cheminformatics
- Computational Quantum Chemistry
- Coordination Chemistry
- Chemical & Biological Crystallography
- Chemistry of Nanomaterials
- Green and Environmental Chemistry
- Materials Chemistry
- Medicinal Chemistry
- Molecular Toxicology
- Physical Chemistry
- Polymer Chemistry
- Protein Chemistry
- Supramolecular Chemistry
- Synthetic Organic Chemistry

Please visit <https://chemistry.snu.edu.in/people/faculty> to know more about the faculty members and their research interests.

Eligibility: A candidate should have a Master's degree in Natural Sciences or M. Tech in relevant areas, with a minimum of 60% marks or an equivalent grade point.

Selection Process: Shortlisted candidates will be intimated for appearing in written test and interview, which will be conducted at Shiv Nadar University (SNU) campus in Gautam Buddha Nagar District (near Greater Noida), U.P. Candidates with CSIR-UGC NET-JRF & DBT-JRF etc. fellowships will directly appear for the onsite interview.

Fees and Financial Assistance: Detailed information about the fee structure and the nature of assistantships are available on the website.

All full time PhD students admitted into the program shall receive a **doctoral fellowship consisting of 100% tuition fee waiver and 70% hostel fee waiver**. The student shall also receive a **monthly stipend of ₹50, 000 for first two years and ₹55,000 for 3rd and 4th year** subject to satisfactory performance. The assistantship is subject to satisfactory performance in the program evaluated continuously, and compliance with all University regulations.

Application Fees: You will be required to pay a non-refundable application fees of Rs. 1,200 (One Thousand Two Hundred Only) by credit/debit card. Candidate may note that the University reserves the right to accept or reject any application based on its departmental screening criteria; hence not all application may be shortlisted for written examination. Therefore, no requests for refund of the application fee shall be entertained whether or not the candidates are called for written examination.

Application Instructions:

All interested applicant shall apply online from the link given below or on the website. Please follow the instructions carefully.

- Fill all the mandatory fields
- **Online upload** of following document is required
 - Passport size color photograph
 - Current CV
 - All Mark sheets/Degree Certificates (10th Standard onwards)
 - Standardized Examination certificate- CSIR, UGC, GATE etc. (If applicable)
 - A Statement of Purpose

After the online submission, a copy of the completed form should be sent by **email** to saritha.rajana@snu.edu.in. The subject heading of email should clearly mention, “Application for PhD Programme in Chemistry”. **Additionally, you are requested to provide one reference letter directly on the above email addresses to support your candidature.**

Please note that the application will not be considered without all the necessary prescribed documents and application fee.

Online submission of application will be closed on Sunday, 5th May 2019.

For any queries related to the application and admission, you may contact:

Ms. Saritha Rajan, *Executive Assistant to the HoD*, Department of Chemistry

Email: saritha.rajana@snu.edu.in

Telephone: +91 120 3819118

About Chemistry Department:

The department is committed to pursuing research on fundamental and applied problems through scientific inquiry, and to stimulating the development of innovative interdisciplinary research programs around key areas of excellence. The immediate mission of Chemistry Department is to:

- Contribute to the advancement and dissemination of chemical knowledge through educational programs, high quality publications in peer reviewed international journals and innovative patents.
- Devise robust and novel solutions to address the needs of society by promoting research into chemical and interdisciplinary projects.
- Train undergraduate, graduate students and research fellows to generate future independent scientists and engineers for serving the needs of society, academia and industries.

Our vision is to make our world a better place through societal-impact cutting-edge research and innovation at Shiv Nadar University.

Please visit <https://chemistry.snu.edu.in/> for further details.

Research Infrastructure

Laboratories in the School of Natural Sciences (SNS) have recently moved in to two new buildings equipped with state of the art research facilities including fume hoods, HPLC, FPLC, GPC, flash chromatography, MALDI-TOF with imaging, LCMS-qToF, DSC, TGA, AFM, UV-visible, FTIR, NMR, Single-Crystal and Powder XRD, Fluorimeter, Ball-milling, I-V and Electrical measurement systems, Thermal evaporator, Glove box, Microwave furnace, Polarization loop-tracer, Bio-safety cabinets (for mammalian, bacterial and plasmodium cultures), CO₂ Incubators, Shaker incubators, Flow cytometry, Inverted and Polarizing Microscope, Electrophoresis apparatus, Imaging systems, Plate reader, Cell counter, Fluorescent microscope, PCR, RT-PCR, *etc*

Computational facilities at SNS include a high performance IBM cluster (“*Magus*”) consisting of 63 compute nodes (1008 cores +2 nodes with GPU processors) with a theoretical peak performance of 30 TF, plus 8 nodes with high-end CPUs and memory for application-specific needs. Additionally, several Linux workstations are used for teaching as well as research purposes. Software for bioinformatics and cheminformatics, molecular modeling, molecular dynamics, quantum chemistry, crystallographic analysis, data analysis and statistical learning are also available.

Please visit the following links to know more about our research laboratories and facilities.

<https://chemistry.snu.edu.in/research/laboratories>

<https://snu.edu.in/research/facilities>

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